ATTACHMENT 1

3/17/2009 9:54:00 AM

Urbemis 2007 Version 9 2 4

Summary Report for Summer Emissions (Pounds/Day)

File Name L \DRAFT\3706q\Global\meadowood urb924

Project Name Meadowood Construction

Project Location South Coast AQMD

On-Road Vehicle Emissions Based on Version Emfac2007 V2 3 Nov 1 2006

Off-Road Vehicle Emissions Based on OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

	<u>CO2</u>	
2012 TOTALS (lbs/day unmitigated)	9,168 77	
2012 TOTALS (lbs/day mitigated)	9,168 77	
2013 TOTALS (lbs/day unmitigated)	9,168 78	
2013 TOTALS (lbs/day mitigated)	9,168 78	
2014 TOTALS (lbs/day unmitigated)	9,168 78	
2014 TOTALS (lbs/day mitigated)	9,168 78	
2015 TOTALS (lbs/day unmitigated)	9,168 79	
2015 TOTALS (lbs/day mitigated)	9,168 79	
2016 TOTALS (lbs/day unmitigated)	9,168 77	
2016 TOTALS (lbs/day mitigated)	9,168 77	

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2017 TOTALS (lbs/day unmitigated)	25,889 50
2017 TOTALS (lbs/day mitigated)	25,889 50
2018 TOTALS (lbs/day unmitigated)	25,889 94
2018 TOTALS (lbs/day mitigated)	25,889 94
2019 TOTALS (lbs/day unmitigated)	25,890 60
2019 TOTALS (lbs/day mitigated)	25,890 60
2020 TOTALS (lbs/day unmitigated)	25,891 36
2020 TOTALS (lbs/day mitigated)	25,891 36
2021 TOTALS (lbs/day unmitigated)	25,895 68
2021 TOTALS (lbs/day mitigated)	25,895 68
2022 TOTALS (lbs/day unmitigated)	25,895 68
2022 TOTALS (lbs/day mitigated)	25,895 68
2002 TOTAL O (II. (I	05 005 60
2023 TOTALS (lbs/day unmitigated)	25,895 68
2023 TOTALS (lbs/day mitigated)	25,895 68
2004 TOTALS (lha/day upmitigated)	25,895 68
2024 TOTALS (lbs/day unmitigated)	25,895 68
2024 TOTALS (lbs/day mitigated)	20,000 00

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2025 TOTALS (lbs/day unmitigated)	245 16
2025 TOTALS (lbs/day mitigated)	245 16

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Detail Report for Summer Construction Unmitigated Emissions (Pounds/Day)

File Name L \DRAFT\3706q\Global\meadowood urb924

Project Name Meadowood Construction

Project Location South Coast AQMD

On-Road Vehicle Emissions Based on Version Emfac2007 V2 3 Nov 1 2006

Off-Road Vehicle Emissions Based on OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Summer Pounds Per Day, Unmitigated)

<u>CO2</u>
4,295 41
4,295 41
0 00
4,132 45
0 00
162 95
9.168.77
9,168 77
0 00
8,842 87
0 00
325 90

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Time Slice 1/1/2013-12/31/2013 Active Days: 261	<u>9,168.78</u>
Mass Grading 01/16/2012- 12/12/2014	9,168 78
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	8,842 87
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	325 91
Time Slice 1/1/2014-12/12/2014 Active Days: 248	<u>9,168.78</u>
Mass Grading 01/16/2012- 12/12/2014	9,168 78
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	8,842 87
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	325 92
Time Slice 12/15/2014-12/31/2014 Active Days: 13	<u>9,168.78</u>
Fine Grading 12/15/2014- 03/18/2016	9,168 78
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	8,842 87
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	325 92
Time Slice 1/1/2015-12/31/2015 Active Days: 261	<u>9,168.79</u>
Fine Grading 12/15/2014- 03/18/2016	9,168 79
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	8,842 87
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	325 92

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Time Slice 1/1/2016-3/18/2016 Active Days 56	<u>9,168.77</u>
Fine Grading 12/15/2014- 03/18/2016	9,168 77
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	8,842 87
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	325 91
Time Slice 3/21/2016-8/19/2016 Active Days 110	1,845 00
Trenching 03/21/2016-08/19/2016	1,845 00
Trenching Off Road Diesel	1,714 64
Trenching Worker Trips	130 36
Time Slice 8/22/2016-12/30/2016 Active Days: 95	2,302 66
Asphalt 08/22/2016-01/20/2017	2,302 66
Paving Off-Gas	0 00
Paving Off Road Diesel	1,418 81
Paving On Road Diesel	720 89
Paving Worker Trips	162 95
Time Slice 1/2/2017-1/20/2017 Active Days 15	2,302 65
Asphalt 08/22/2016-01/20/2017	2,302 65
Paving Off-Gas	0 00
Paving Off Road Diesel	1,418 81
Paving On Road Diesel	720 89
Paving Worker Trips	162 95

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Time Slice 1/23/2017-12/29/2017 Active Days: 245	<u>25,889.50</u>
Building 01/23/2017-05/17/2024	25,889 50
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,244 55
Building Worker Trips	18,385 67
Time Slice 1/1/2018-12/31/2018 Active Days 261	<u>25.889.94</u>
Building 01/23/2017-05/17/2024	25,889 94
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,244 88
Building Worker Trips	18,385 78
Time Slice 1/1/2019-12/31/2019 Active Days: 261	25.890.60
Building 01/23/2017-05/17/2024	25,890 60
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,245 21
Building Worker Trips	18,386 11
Time Slice 1/1/2020-12/31/2020 Active Days: 262	<u>25,891.36</u>
Building 01/23/2017-05/17/2024	25,891 36
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,245 55
Building Worker Trips	18,386 53
Time Slice 1/1/2021-12/31/2021 Active Days 261	<u>25,895.68</u>
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38

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Time Slice 1/3/2022-12/30/2022 Active Days 260	<u>25,895.68</u>
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38
Time Slice 1/2/2023-12/29/2023 Active Days: 260	<u>25,895.68</u>
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38
Time Slice 1/1/2024-5/17/2024 Active Days: 100	<u>25.895.68</u>
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38
Time Slice 5/20/2024-12/31/2024 Active Days: 162	245 16
Coating 05/20/2024-05/23/2025	245 16
Architectural Coating	0 00
Coating Worker Trips	245 16
Time Slice 1/1/2025-5/23/2025 Active Days 103	<u>245.16</u>
Coating 05/20/2024-05/23/2025	245 16
Architectural Coating	0 00
Coating Worker Trips	245 16

Phase Assumptions

Phase Demolition 1/3/2012 - 1/13/2012 - Default Demolition Description Building Volume Total (cubic feet) $\,$ 0

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Building Volume Daily (cubic feet) 0

On Road Truck Travel (VMT) 0

Off-Road Equipment

3 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day

2 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day

Phase Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed 208 5

Maximum Daily Acreage Disturbed 52 12

Fugitive Dust Level of Detail Default

20 lbs per acre-day

On Road Truck Travel (VMT) 0

Off-Road Equipment

- 1 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0 61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day
- 3 Scrapers (313 hp) operating at a 0 72 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 8 hours per day
- 1 Water Trucks (189 hp) operating at a 0 5 load factor for 8 hours per day

Phase Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed 208 5

Maximum Daily Acreage Disturbed 52 12

Fugitive Dust Level of Detail Default

20 lbs per acre-day

On Road Truck Travel (VMT) 0

Off-Road Equipment

- 1 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0 61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day
- 3 Scrapers (313 hp) operating at a 0 72 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 8 hours per day
- 1 Water Trucks (189 hp) operating at a 0 5 load factor for 8 hours per day

Phase Trenching 3/21/2016 - 8/19/2016 - Default Trenching Description

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Off-Road Equipment

- 2 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Other General Industrial Equipment (238 hp) operating at a 0 51 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 0 hours per day

Phase Paving 8/22/2016 - 1/20/2017 - Default Paving Description

Acres to be Paved 52 12

Off-Road Equipment

- 1 Pavers (100 hp) operating at a 0 62 load factor for 8 hours per day
- 2 Paving Equipment (104 hp) operating at a 0 53 load factor for 8 hours per day
- 2 Rollers (95 hp) operating at a 0 56 load factor for 6 hours per day

Phase Building Construction 1/23/2017 - 5/17/2024 - Default Building Construction Description Off-Road Equipment

- 1 Cranes (399 hp) operating at a 0 43 load factor for 7 hours per day
- 3 Forklifts (145 hp) operating at a 0 3 load factor for 8 hours per day
- 1 Generator Sets (49 hp) operating at a 0 74 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 7 hours per day
- 1 Welders (45 hp) operating at a 0 45 load factor for 8 hours per day

Phase Architectural Coating 5/20/2024 - 5/23/2025 - Default Architectural Coating Description

Rule Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

Rule Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

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Urbemis 2007 Version 9 2 4

Detail Report for Summer Construction Mitigated Emissions (Pounds/Day)

File Name L \DRAFT\3706q\Global\meadowood urb924

Project Name Meadowood Construction

Project Location South Coast AQMD

On-Road Vehicle Emissions Based on Version Emfac2007 V2 3 Nov 1 2006

Off-Road Vehicle Emissions Based on OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Summer Pounds Per Day, Mitigated)

	<u>CO2</u>
Fime Slice 1/3/2012-1/13/2012 Active Days: 9	4,295 41
Demolition 01/03/2012- 01/13/2012	4,295 41
Fugitive Dust	0 00
Demo Off Road Diesel	4,132 45
Demo On Road Diesel	0 00
Demo Worker Trips	162 95
Time Slice 1/16/2012-12/31/2012 Active Days 251	9.168.77
Mass Grading 01/16/2012- 12/12/2014	9,168 77
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	8,842 87
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	325 90

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Time Slice 1/1/2013-12/31/2013 Active Days 261	<u>9,168.78</u>
Mass Grading 01/16/2012- 12/12/2014	9,168 78
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	8,842 87
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	325 91
Time Slice 1/1/2014-12/12/2014 Active Days: 248	<u>9,168.78</u>
Mass Grading 01/16/2012- 12/12/2014	9,168 78
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	8,842 87
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	325 92
Time Slice 12/15/2014-12/31/2014 Active Days: 13	9,168.78
Fine Grading 12/15/2014- 03/18/2016	9,168 78
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	8,842 87
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	325 92
Time Slice 1/1/2015-12/31/2015 Active Days 261	9,168.79
Fine Grading 12/15/2014- 03/18/2016	9,168 79
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	8,842 87
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	325 92

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Time Slice 1/1/2016-3/18/2016 Active Days: 56	9,168.77
Fine Grading 12/15/2014- 03/18/2016	9,168 77
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	8,842 87
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	325 91
Time Slice 3/21/2016-8/19/2016 Active Days: 110	1,845 00
Trenching 03/21/2016-08/19/2016	1,845 00
Trenching Off Road Diesel	1,714 64
Trenching Worker Trips	130 36
Time Slice 8/22/2016-12/30/2016 Active Days 95	2,302 66
Asphalt 08/22/2016-01/20/2017	2,302 66
Paving Off-Gas	0 00
Paving Off Road Diesel	1,418 81
Paving On Road Diesel	720 89
Paving Worker Trips	162 95
Time Slice 1/2/2017-1/20/2017 Active Days: 15	2,302 65
Asphalt 08/22/2016-01/20/2017	2,302 65
Paving Off-Gas	0 00
Paving Off Road Diesel	1,418 81
Paving On Road Diesel	720 89
Paving Worker Trips	162 95

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Time Slice 1/23/2017-12/29/2017 Active Days: 245	<u>25,889.50</u>
Building 01/23/2017-05/17/2024	25,889 50
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,244 55
Building Worker Trips	18,385 67
Time Slice 1/1/2018-12/31/2018 Active Days 261	<u>25,889.94</u>
Building 01/23/2017-05/17/2024	25,889 94
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,244 88
Building Worker Trips	18,385 78
Time Slice 1/1/2019-12/31/2019 Active Days: 261	25.890.60
Building 01/23/2017-05/17/2024	25,890 60
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,245 21
Building Worker Trips	18,386 11
Time Slice 1/1/2020-12/31/2020 Active Days: 262	<u>25,891.36</u>
Building 01/23/2017-05/17/2024	25,891 36
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,245 55
Building Worker Trips	18,386 53
Time Slice 1/1/2021-12/31/2021 Active Days 261	<u>25,895.68</u>
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38

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Time Slice 1/3/2022-12/30/2022 Active Days 260	25,895.68
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38
Time Slice 1/2/2023-12/29/2023 Active Days 260	<u>25,895.68</u>
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38
Time Slice 1/1/2024-5/17/2024 Active Days: 100	25,895.68
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38
Time Slice 5/20/2024-12/31/2024 Active Days: 162	245 16
Coating 05/20/2024-05/23/2025	245 16
Architectural Coating	0 00
Coating Worker Trips	245 16
Time Slice 1/1/2025-5/23/2025 Active Days: 103	<u>245.16</u>
Coating 05/20/2024-05/23/2025	245 16
Architectural Coating	0 00
Coating Worker Trips	245 16
	0

Construction Related Mitigation Measures

The following mitigation measures apply to Phase Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by

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PM10 84% PM25 84%

For Soil Stablizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by

PM10 5% PM25 5%

For Soil Stablizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by

PM10 61% PM25 61%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by

PM10 44% PM25 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by

PM10 61% PM25 61%

The following mitigation measures apply to Phase Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by

PM10 84% PM25 84%

For Soil Stablizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by

PM10 5% PM25 5%

For Soil Stablizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by

PM10 61% PM25 61%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by

PM10 44% PM25 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by

PM10 61% PM25 61%

Phase Assumptions

Phase Demolition 1/3/2012 - 1/13/2012 - Default Demolition Description

Building Volume Total (cubic feet) 0

Building Volume Daily (cubic feet) 0

On Road Truck Travel (VMT) 0

Off-Road Equipment

3 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day

2 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day

Phase Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed 208 5

Maximum Daily Acreage Disturbed 52 12

Fugitive Dust Level of Detail Default

3/17/2009 9:54:52 AM

20 lbs per acre-day

On Road Truck Travel (VMT) 0

Off-Road Equipment

- 1 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0 61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day
- 3 Scrapers (313 hp) operating at a 0 72 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 8 hours per day
- 1 Water Trucks (189 hp) operating at a 0 5 load factor for 8 hours per day

Phase Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed 208 5

Maximum Daily Acreage Disturbed 52 12

Fugitive Dust Level of Detail Default

20 lbs per acre-day

On Road Truck Travel (VMT) 0

Off-Road Equipment

- 1 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0 61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day
- 3 Scrapers (313 hp) operating at a 0 72 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 8 hours per day
- 1 Water Trucks (189 hp) operating at a 0 5 load factor for 8 hours per day

Phase Trenching 3/21/2016 - 8/19/2016 - Default Trenching Description

Off-Road Equipment

- 2 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Other General Industrial Equipment (238 hp) operating at a 0 51 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 0 hours per day

Phase Paving 8/22/2016 - 1/20/2017 - Default Paving Description

Acres to be Paved 52 12

Off-Road Equipment

- 1 Pavers (100 hp) operating at a 0 62 load factor for 8 hours per day
- 2 Paving Equipment (104 hp) operating at a 0 53 load factor for 8 hours per day

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2 Rollers (95 hp) operating at a 0 56 load factor for 6 hours per day

Phase Building Construction 1/23/2017 - 5/17/2024 - Default Building Construction Description Off-Road Equipment

- 1 Cranes (399 hp) operating at a 0 43 load factor for 7 hours per day
- 3 Forklifts (145 hp) operating at a 0 3 load factor for 8 hours per day
- 1 Generator Sets (49 hp) operating at a 0 74 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 7 hours per day
- 1 Welders (45 hp) operating at a 0 45 load factor for 8 hours per day

Phase Architectural Coating 5/20/2024 - 5/23/2025 - Default Architectural Coating Description

Rule Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

Rule Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

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Urbemis 2007 Version 9 2 4

Summary Report for Winter Emissions (Pounds/Day)

File Name L \DRAFT\3706q\Global\meadowood urb924

Project Name Meadowood Construction

Project Location South Coast AQMD

On-Road Vehicle Emissions Based on Version Emfac2007 V2 3 Nov 1 2006

Off-Road Vehicle Emissions Based on OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

	<u>CO2</u>
2012 TOTALS (lbs/day unmitigated)	9,168 77
2012 TOTALS (lbs/day mitigated)	9,168 77
2013 TOTALS (lbs/day unmitigated)	9,168 78
2013 TOTALS (lbs/day mitigated)	9,168 78
2014 TOTALS (lbs/day unmitigated)	9,168 78
2014 TOTALS (lbs/day mitigated)	9,168 78
2015 TOTALS (lbs/day unmitigated)	9,168 79
2015 TOTALS (lbs/day mitigated)	9,168 79
2016 TOTALS (lbs/day unmitigated)	9,168 77
2016 TOTALS (lbs/day mitigated)	9,168 77

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2017 TOTALS (lbs/day unmitigated)	25,889 50
2017 TOTALS (lbs/day mitigated)	25,889 50
2018 TOTALS (lbs/day unmitigated)	25,889 94
2018 TOTALS (lbs/day mitigated)	25,889 94
2019 TOTALS (lbs/day unmitigated)	25,890 60
2019 TOTALS (lbs/day mitigated)	25,890 60
2020 TOTALS (lbs/day unmitigated)	25,891 36
2020 TOTALS (lbs/day mitigated)	25,891 36
2021 TOTALS (lbs/day unmitigated)	25,895 68
2021 TOTALS (lbs/day mitigated)	25,895 68
	0
2022 TOTALS (lbs/day unmitigated)	25,895 68
2022 TOTALS (lbs/day mitigated)	25,895 68
	05.005.00
2023 TOTALS (lbs/day unmitigated)	25,895 68
2023 TOTALS (lbs/day mitigated)	25,895 68
2024 TOTALS (lbs/day unmitigated)	25,895 68
2024 TOTALS (lbs/day mitigated)	25,895 68

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2025 TOTALS (lbs/day unmitigated) 245 16 2025 TOTALS (lbs/day mitigated) 245 16

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Urbemis 2007 Version 9 2 4

Detail Report for Winter Construction Unmitigated Emissions (Pounds/Day)

File Name L \DRAFT\3706q\Global\meadowood urb924

Project Name Meadowood Construction

Project Location South Coast AQMD

On-Road Vehicle Emissions Based on Version Emfac2007 V2 3 Nov 1 2006

Off-Road Vehicle Emissions Based on OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Winter Pounds Per Day, Unmitigated)

	<u>CO2</u>
Time Slice 1/3/2012-1/13/2012 Active Days: 9	4,295 41
Demolition 01/03/2012- 01/13/2012	4,295 41
Fugitive Dust	0 00
Demo Off Road Diesel	4,132 45
Demo On Road Diesel	0 00
Demo Worker Trips	162 95
Time Slice 1/16/2012-12/31/2012 Active Days: 251	9.168.77
Mass Grading 01/16/2012- 12/12/2014	9,168 77
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	8,842 87
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	325 90

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Time Slice 1/1/2013-12/31/2013 Active Days 261	<u>9,168.78</u>
Mass Grading 01/16/2012- 12/12/2014	9,168 78
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	8,842 87
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	325 91
Time Slice 1/1/2014-12/12/2014 Active Days: 248	<u>9,168.78</u>
Mass Grading 01/16/2012- 12/12/2014	9,168 78
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	8,842 87
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	325 92
Time Slice 12/15/2014-12/31/2014 Active Days: 13	<u>9,168.78</u>
Fine Grading 12/15/2014- 03/18/2016	9,168 78
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	8,842 87
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	325 92
Time Slice 1/1/2015-12/31/2015 Active Days: 261	9,168.79
Fine Grading 12/15/2014- 03/18/2016	9,168 79
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	8,842 87
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	325 92

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Time Slice 1/1/2016-3/18/2016 Active Days: 56	<u>9,168.77</u>
Fine Grading 12/15/2014- 03/18/2016	9,168 77
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	8,842 87
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	325 91
Time Slice 3/21/2016-8/19/2016 Active Days: 110	1,845 00
Trenching 03/21/2016-08/19/2016	1,845 00
Trenching Off Road Diesel	1,714 64
Trenching Worker Trips	130 36
Time Slice 8/22/2016-12/30/2016 Active Days: 95	2,302 66
Asphalt 08/22/2016-01/20/2017	2,302 66
Paving Off-Gas	0 00
Paving Off Road Diesel	1,418 81
Paving On Road Diesel	720 89
Paving Worker Trips	162 95
Time Slice 1/2/2017-1/20/2017 Active Days: 15	2,302 65
Asphalt 08/22/2016-01/20/2017	2,302 65
Paving Off-Gas	0 00
Paving Off Road Diesel	1,418 81
Paving On Road Diesel	720 89
Paving Worker Trips	162 95

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Time Slice 1/23/2017-12/29/2017 Active Days: 245	<u>25,889.50</u>
Building 01/23/2017-05/17/2024	25,889 50
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,244 55
Building Worker Trips	18,385 67
Time Slice 1/1/2018-12/31/2018 Active Days 261	<u>25,889.94</u>
Building 01/23/2017-05/17/2024	25,889 94
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,244 88
Building Worker Trips	18,385 78
Time Slice 1/1/2019-12/31/2019 Active Days: 261	25.890.60
Building 01/23/2017-05/17/2024	25,890 60
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,245 21
Building Worker Trips	18,386 11
Time Slice 1/1/2020-12/31/2020 Active Days: 262	<u>25,891.36</u>
Building 01/23/2017-05/17/2024	25,891 36
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,245 55
Building Worker Trips	18,386 53
Time Slice 1/1/2021-12/31/2021 Active Days: 261	25,895.68
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38

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Time Slice 1/3/2022-12/30/2022 Active Days: 260	<u>25,895.68</u>
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38
Time Slice 1/2/2023-12/29/2023 Active Days: 260	<u>25,895.68</u>
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38
Time Slice 1/1/2024-5/17/2024 Active Days: 100	<u>25,895.68</u>
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38
Time Slice 5/20/2024-12/31/2024 Active Days: 162	245 16
Coating 05/20/2024-05/23/2025	245 16
Architectural Coating	0 00
Coating Worker Trips	245 16
Time Slice 1/1/2025-5/23/2025 Active Days: 103	<u>245.16</u>
Coating 05/20/2024-05/23/2025	245 16
Architectural Coating	0 00
Coating Worker Trips	245 16

Phase Assumptions

Phase Demolition 1/3/2012 - 1/13/2012 - Default Demolition Description Building Volume Total (cubic feet) 0

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Building Volume Daily (cubic feet) 0

On Road Truck Travel (VMT) 0

Off-Road Equipment

3 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day

2 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day

Phase Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed 208 5

Maximum Daily Acreage Disturbed 52 12

Fugitive Dust Level of Detail Default

20 lbs per acre-day

On Road Truck Travel (VMT) 0

Off-Road Equipment

- 1 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0 61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day
- 3 Scrapers (313 hp) operating at a 0 72 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 8 hours per day
- 1 Water Trucks (189 hp) operating at a 0 5 load factor for 8 hours per day

Phase Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed 208 5

Maximum Daily Acreage Disturbed 52 12

Fugitive Dust Level of Detail Default

20 lbs per acre-day

On Road Truck Travel (VMT) 0

Off-Road Equipment

- 1 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0 61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day
- 3 Scrapers (313 hp) operating at a 0 72 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 8 hours per day
- 1 Water Trucks (189 hp) operating at a 0 5 load factor for 8 hours per day

Phase Trenching 3/21/2016 - 8/19/2016 - Default Trenching Description

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Off-Road Equipment

- 2 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Other General Industrial Equipment (238 hp) operating at a 0 51 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 0 hours per day

Phase Paving 8/22/2016 - 1/20/2017 - Default Paving Description

Acres to be Paved 52 12

Off-Road Equipment

- 1 Pavers (100 hp) operating at a 0 62 load factor for 8 hours per day
- 2 Paving Equipment (104 hp) operating at a 0 53 load factor for 8 hours per day
- 2 Rollers (95 hp) operating at a 0 56 load factor for 6 hours per day

Phase Building Construction 1/23/2017 - 5/17/2024 - Default Building Construction Description Off-Road Equipment

- 1 Cranes (399 hp) operating at a 0 43 load factor for 7 hours per day
- 3 Forklifts (145 hp) operating at a 0 3 load factor for 8 hours per day
- 1 Generator Sets (49 hp) operating at a 0 74 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 7 hours per day
- 1 Welders (45 hp) operating at a 0 45 load factor for 8 hours per day

Phase Architectural Coating 5/20/2024 - 5/23/2025 - Default Architectural Coating Description

Rule Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

Rule Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

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Urbemis 2007 Version 9 2 4

Detail Report for Winter Construction Mitigated Emissions (Pounds/Day)

File Name L \DRAFT\3706q\Global\meadowood urb924

Project Name Meadowood Construction

Project Location South Coast AQMD

On-Road Vehicle Emissions Based on Version Emfac2007 V2 3 Nov 1 2006

Off-Road Vehicle Emissions Based on OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Winter Pounds Per Day, Mitigated)

	<u>CO2</u>
Time Slice 1/3/2012-1/13/2012 Active Days: 9	4,295 41
Demolition 01/03/2012- 01/13/2012	4,295 41
Fugitive Dust	0 00
Demo Off Road Diesel	4,132 45
Demo On Road Diesel	0 00
Demo Worker Trips	162 95
Time Slice 1/16/2012-12/31/2012 Active Days: 251	9.168.77
Mass Grading 01/16/2012- 12/12/2014	9,168 77
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	8,842 87
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	325 90

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Time Slice 1/1/2013-12/31/2013 Active Days 261	<u>9,168.78</u>
Mass Grading 01/16/2012- 12/12/2014	9,168 78
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	8,842 87
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	325 91
Time Slice 1/1/2014-12/12/2014 Active Days: 248	<u>9,168.78</u>
Mass Grading 01/16/2012- 12/12/2014	9,168 78
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	8,842 87
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	325 92
Time Slice 12/15/2014-12/31/2014 Active Days: 13	<u>9,168.78</u>
Fine Grading 12/15/2014- 03/18/2016	9,168 78
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	8,842 87
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	325 92
Time Slice 1/1/2015-12/31/2015 Active Days 261	9,168.79
Fine Grading 12/15/2014- 03/18/2016	9,168 79
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	8,842 87
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	325 92

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Time Slice 1/1/2016-3/18/2016 Active Days: 56	9,168.77
Fine Grading 12/15/2014- 03/18/2016	9,168 77
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	8,842 87
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	325 91
Time Slice 3/21/2016-8/19/2016 Active Days: 110	1,845 00
Trenching 03/21/2016-08/19/2016	1,845 00
Trenching Off Road Diesel	1,714 64
Trenching Worker Trips	130 36
Time Slice 8/22/2016-12/30/2016 Active Days: 95	2,302 66
Asphalt 08/22/2016-01/20/2017	2,302 66
Paving Off-Gas	0 00
Paving Off Road Diesel	1,418 81
Paving On Road Diesel	720 89
Paving Worker Trips	162 95
Time Slice 1/2/2017-1/20/2017 Active Days 15	2,302 65
Asphalt 08/22/2016-01/20/2017	2,302 65
Paving Off-Gas	0 00
Paving Off Road Diesel	1,418 81
Paving On Road Diesel	720 89
Paving Worker Trips	162 95

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Time Slice 1/23/2017-12/29/2017	25,889.50
Active Days: 245 Building 01/23/2017-05/17/2024	25,889 50
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,244 55
Building Worker Trips	18,385 67
· ·	,
Time Slice 1/1/2018-12/31/2018 Active Days 261	<u>25,889.94</u>
Building 01/23/2017-05/17/2024	25,889 94
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,244 88
Building Worker Trips	18,385 78
Time Slice 1/1/2019-12/31/2019 Active Days: 261	25.890.60
Building 01/23/2017-05/17/2024	25,890 60
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,245 21
Building Worker Trips	18,386 11
Time Slice 1/1/2020-12/31/2020 Active Days: 262	25,891.36
Building 01/23/2017-05/17/2024	25,891 36
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,245 55
Building Worker Trips	18,386 53
Time Slice 1/1/2021-12/31/2021 Active Days 261	25,895.68
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38

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Time Slice 1/3/2022-12/30/2022 Active Days: 260	<u>25,895.68</u>
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38
Time Slice 1/2/2023-12/29/2023 Active Days: 260	<u>25,895.68</u>
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38
Time Slice 1/1/2024-5/17/2024 Active Days 100	<u>25,895.68</u>
Building 01/23/2017-05/17/2024	25,895 68
Building Off Road Diesel	2,259 28
Building Vendor Trips	5,247 02
Building Worker Trips	18,389 38
Time Slice 5/20/2024-12/31/2024 Active Days: 162	245 16
Coating 05/20/2024-05/23/2025	245 16
Architectural Coating	0 00
Coating Worker Trips	245 16
Time Slice 1/1/2025-5/23/2025 Active Days 103	<u>245.16</u>
Coating 05/20/2024-05/23/2025	245 16
Architectural Coating	0 00
Coating Worker Trips	245 16
	_

Construction Related Mitigation Measures

The following mitigation measures apply to Phase Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by

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PM10 84% PM25 84%

For Soil Stablizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by

PM10 5% PM25 5%

For Soil Stablizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by

PM10 61% PM25 61%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by

PM10 44% PM25 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by

PM10 61% PM25 61%

The following mitigation measures apply to Phase Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by

PM10 84% PM25 84%

For Soil Stablizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by

PM10 5% PM25 5%

For Soil Stablizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by

PM10 61% PM25 61%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by

PM10 44% PM25 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by

PM10 61% PM25 61%

Phase Assumptions

Phase Demolition 1/3/2012 - 1/13/2012 - Default Demolition Description

Building Volume Total (cubic feet) 0

Building Volume Daily (cubic feet) 0

On Road Truck Travel (VMT) 0

Off-Road Equipment

3 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day

2 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day

Phase Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed 208 5

Maximum Daily Acreage Disturbed 52 12

Fugitive Dust Level of Detail Default

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20 lbs per acre-day

On Road Truck Travel (VMT) 0

Off-Road Equipment

- 1 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0 61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day
- 3 Scrapers (313 hp) operating at a 0 72 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 8 hours per day
- 1 Water Trucks (189 hp) operating at a 0 5 load factor for 8 hours per day

Phase Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed 208 5

Maximum Daily Acreage Disturbed 52 12

Fugitive Dust Level of Detail Default

20 lbs per acre-day

On Road Truck Travel (VMT) 0

Off-Road Equipment

- 1 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0 61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day
- 3 Scrapers (313 hp) operating at a 0 72 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 8 hours per day
- 1 Water Trucks (189 hp) operating at a 0 5 load factor for 8 hours per day

Phase Trenching 3/21/2016 - 8/19/2016 - Default Trenching Description

Off-Road Equipment

- 2 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Other General Industrial Equipment (238 hp) operating at a 0 51 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 0 hours per day

Phase Paving 8/22/2016 - 1/20/2017 - Default Paving Description

Acres to be Paved 52 12

Off-Road Equipment

- 1 Pavers (100 hp) operating at a 0 62 load factor for 8 hours per day
- 2 Paving Equipment (104 hp) operating at a 0 53 load factor for 8 hours per day

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2 Rollers (95 hp) operating at a 0 56 load factor for 6 hours per day

Phase Building Construction 1/23/2017 - 5/17/2024 - Default Building Construction Description Off-Road Equipment

- 1 Cranes (399 hp) operating at a 0 43 load factor for 7 hours per day
- 3 Forklifts (145 hp) operating at a 0 3 load factor for 8 hours per day
- 1 Generator Sets (49 hp) operating at a 0 74 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 7 hours per day
- 1 Welders (45 hp) operating at a 0 45 load factor for 8 hours per day

Phase Architectural Coating 5/20/2024 - 5/23/2025 - Default Architectural Coating Description

Rule Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

Rule Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

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Urbemis 2007 Version 9 2 4

Summary Report for Annual Emissions (Tons/Year)

File Name L \DRAFT\3706q\Global\meadowood urb924

Project Name Meadowood Construction

Project Location South Coast AQMD

On-Road Vehicle Emissions Based on Version Emfac2007 V2 3 Nov 1 2006

Off-Road Vehicle Emissions Based on OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES

	<u>CO2</u>
2012 TOTALS (tons/year unmitigated)	1,170 01
2012 TOTALS (tons/year mitigated)	1,170 01
Percent Reduction	0 00
2013 TOTALS (tons/year unmitigated)	1,196 53
2013 TOTALS (tons/year mitigated)	1,196 53
Percent Reduction	0 00
2014 TOTALS (tons/year unmitigated)	1,196 53
2014 TOTALS (tons/year mitigated)	1,196 53
Percent Reduction	0 00
2015 TOTALS (tons/year unmitigated)	1,196 53
2015 TOTALS (tons/year mitigated)	1,196 53

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Percent Reduction	0 00
2016 TOTALS (tons/year unmitigated)	467 58
2016 TOTALS (tons/year mitigated)	467 58
Percent Reduction	0 00
2017 TOTALS (tons/year unmitigated)	3,188 73
2017 TOTALS (tons/year mitigated)	3,188 73
Percent Reduction	0 00
2018 TOTALS (tons/year unmitigated)	3,378 64
2018 TOTALS (tons/year mitigated)	3,378 64
Percent Reduction	0 00
2019 TOTALS (tons/year unmitigated)	3,378 72
2019 TOTALS (tons/year mitigated)	3,378 72
Percent Reduction	0 00
2020 TOTALS (tons/year unmitigated)	3,391 77
2020 TOTALS (tons/year mitigated)	3,391 77
Percent Reduction	0 00
2021 TOTALS (tons/year unmitigated)	3,379 39
2021 TOTALS (tons/year mitigated)	3,379 39

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Percent Reduction	0 00
2022 TOTALS (tons/year unmitigated)	3,366 44
2022 TOTALS (tons/year mitigated)	3,366 44
Percent Reduction	0 00
2023 TOTALS (tons/year unmitigated)	3,366 44
2023 TOTALS (tons/year mitigated)	3,366 44
Percent Reduction	0 00
2024 TOTALS (tons/year unmitigated)	1,314 64
2024 TOTALS (tons/year mitigated)	1,314 64
Percent Reduction	0 00
2025 TOTALS (tons/year unmitigated)	12 63
2025 TOTALS (tons/year mitigated)	12 63
Percent Reduction	0 00

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Urbemis 2007 Version 9 2 4

Detail Report for Annual Construction Unmitigated Emissions (Tons/Year)

File Name L \DRAFT\3706q\Global\meadowood urb924

Project Name Meadowood Construction

Project Location South Coast AQMD

On-Road Vehicle Emissions Based on Version Emfac2007 V2 3 Nov 1 2006

Off-Road Vehicle Emissions Based on OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Annual Tons Per Year, Unmitigated)

	<u>CO2</u>
2012	1,170 01
Demolition 01/03/2012- 01/13/2012	19 33
Fugitive Dust	0 00
Demo Off Road Diesel	18 60
Demo On Road Diesel	0 00
Demo Worker Trips	0 73
Mass Grading 01/16/2012- 12/12/2014	1,150 68
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	1,109 78
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	40 90
2013	1,196 53
Mass Grading 01/16/2012- 12/12/2014	1,196 53
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	1,153 99
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	42 53

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2014	1,196 53
Mass Grading 01/16/2012- 12/12/2014	1,136 93
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	1,096 52
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	40 41
Fine Grading 12/15/2014- 03/18/2016	59 60
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	57 48
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	2 12
2015	1,196 53
Fine Grading 12/15/2014- 03/18/2016	1,196 53
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	1,153 99
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	42 53

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2016	467 58
Fine Grading 12/15/2014- 03/18/2016	256 73
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	247 60
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	9 13
Trenching 03/21/2016-08/19/2016	101 48
Trenching Off Road Diesel	94 31
Trenching Worker Trips	7 17
Asphalt 08/22/2016-01/20/2017	109 38
Paving Off-Gas	0 00
Paving Off Road Diesel	67 39
Paving On Road Diesel	34 24
Paving Worker Trips	7 74
2017	3,188 73
Asphalt 08/22/2016-01/20/2017	17 27
Paving Off-Gas	0 00
Paving Off Road Diesel	10 64
Paving On Road Diesel	5 41
Paving Worker Trips	1 22
Building 01/23/2017-05/17/2024	3,171 46
Building Off Road Diesel	276 76
Building Vendor Trips	642 46
Building Worker Trips	2,252 24

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2018	3,378 64
Building 01/23/2017-05/17/2024	3,378 64
Building Off Road Diesel	294 84
Building Vendor Trips	684 46
Building Worker Trips	2,399 34
2019	3,378 72
Building 01/23/2017-05/17/2024	3,378 72
Building Off Road Diesel	294 84
Building Vendor Trips	684 50
Building Worker Trips	2,399 39
2020	3,391 77
Building 01/23/2017-05/17/2024	3,391 77
Building Off Road Diesel	295 97
Building Vendor Trips	687 17
Building Worker Trips	2,408 64
2021	3,379 39
Building 01/23/2017-05/17/2024	3,379 39
Building Off Road Diesel	294 84
Building Vendor Trips	684 74
Building Worker Trips	2,399 81
2022	3,366 44
Building 01/23/2017-05/17/2024	3,366 44
Building Off Road Diesel	293 71
Building Vendor Trips	682 11
Building Worker Trips	2,390 62

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2023	3,366 44
Building 01/23/2017-05/17/2024	3,366 44
Building Off Road Diesel	293 71
Building Vendor Trips	682 11
Building Worker Trips	2,390 62
2024	1,314 64
Building 01/23/2017-05/17/2024	1,294 78
Building Off Road Diesel	112 96
Building Vendor Trips	262 35
Building Worker Trips	919 47
Coating 05/20/2024-05/23/2025	19 86
Architectural Coating	0 00
Coating Worker Trips	19 86
2025	12 63
Coating 05/20/2024-05/23/2025	12 63
Architectural Coating	0 00
Coating Worker Trips	12 63

Phase Assumptions

Phase Demolition 1/3/2012 - 1/13/2012 - Default Demolition Description

Building Volume Total (cubic feet) 0

Building Volume Daily (cubic feet) 0

On Road Truck Travel (VMT) 0

Off-Road Equipment

- 3 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 2 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day

Phase Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed 208 5

Maximum Daily Acreage Disturbed 52 12

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Fugitive Dust Level of Detail Default

20 lbs per acre-day

On Road Truck Travel (VMT) 0

Off-Road Equipment

- 1 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0 61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day
- 3 Scrapers (313 hp) operating at a 0 72 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 8 hours per day
- 1 Water Trucks (189 hp) operating at a 0 5 load factor for 8 hours per day

Phase Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed 208 5

Maximum Daily Acreage Disturbed 52 12

Fugitive Dust Level of Detail Default

20 lbs per acre-day

On Road Truck Travel (VMT) 0

Off-Road Equipment

- 1 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0 61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day
- 3 Scrapers (313 hp) operating at a 0 72 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 8 hours per day
- 1 Water Trucks (189 hp) operating at a 0 5 load factor for 8 hours per day

Phase Trenching 3/21/2016 - 8/19/2016 - Default Trenching Description

Off-Road Equipment

- 2 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Other General Industrial Equipment (238 hp) operating at a 0 51 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 0 hours per day

Phase Paving 8/22/2016 - 1/20/2017 - Default Paving Description

Acres to be Paved 52 12

Off-Road Equipment

1 Pavers (100 hp) operating at a 0 62 load factor for 8 hours per day

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- 2 Paving Equipment (104 hp) operating at a 0 53 load factor for 8 hours per day
- 2 Rollers (95 hp) operating at a 0 56 load factor for 6 hours per day

Phase Building Construction 1/23/2017 - 5/17/2024 - Default Building Construction Description Off-Road Equipment

- 1 Cranes (399 hp) operating at a 0 43 load factor for 7 hours per day
- 3 Forklifts (145 hp) operating at a 0 3 load factor for 8 hours per day
- 1 Generator Sets (49 hp) operating at a 0 74 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 7 hours per day
- 1 Welders (45 hp) operating at a 0 45 load factor for 8 hours per day

Phase Architectural Coating 5/20/2024 - 5/23/2025 - Default Architectural Coating Description

Rule Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100

Rule Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50

Rule Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250

Rule Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100

Rule Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

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Urbemis 2007 Version 9 2 4

Detail Report for Annual Construction Mitigated Emissions (Tons/Year)

File Name L \DRAFT\3706q\Global\meadowood urb924

Project Name Meadowood Construction

Project Location South Coast AQMD

On-Road Vehicle Emissions Based on Version Emfac2007 V2 3 Nov 1 2006

Off-Road Vehicle Emissions Based on OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Annual Tons Per Year, Mitigated)

	<u>CO2</u>
2012	1,170 01
Demolition 01/03/2012- 01/13/2012	19 33
Fugitive Dust	0 00
Demo Off Road Diesel	18 60
Demo On Road Diesel	0 00
Demo Worker Trips	0 73
Mass Grading 01/16/2012- 12/12/2014	1,150 68
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	1,109 78
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	40 90
2013	1,196 53
Mass Grading 01/16/2012- 12/12/2014	1,196 53
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	1,153 99
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	42 53

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2014	1,196 53
Mass Grading 01/16/2012- 12/12/2014	1,136 93
Mass Grading Dust	0 00
Mass Grading Off Road Diesel	1,096 52
Mass Grading On Road Diesel	0 00
Mass Grading Worker Trips	40 41
Fine Grading 12/15/2014- 03/18/2016	59 60
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	57 48
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	2 12
2015	1,196 53
Fine Grading 12/15/2014- 03/18/2016	1,196 53
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	1,153 99
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	42 53

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2016	467 58
Fine Grading 12/15/2014- 03/18/2016	256 73
Fine Grading Dust	0 00
Fine Grading Off Road Diesel	247 60
Fine Grading On Road Diesel	0 00
Fine Grading Worker Trips	9 13
Trenching 03/21/2016-08/19/2016	101 48
Trenching Off Road Diesel	94 31
Trenching Worker Trips	7 17
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Building Worker Trips	2,399 39
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Building 01/23/2017-05/17/2024	3,391 77
Building Off Road Diesel	295 97
Building Vendor Trips	687 17
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Building Off Road Diesel	112 96
Building Vendor Trips	262 35
Building Worker Trips	919 47
Coating 05/20/2024-05/23/2025	19 86
Architectural Coating	0 00
Coating Worker Trips	19 86
2025	12 63
Coating 05/20/2024-05/23/2025	12 63
Architectural Coating	0 00
Coating Worker Trips	12 63

Construction Related Mitigation Measures

The following mitigation measures apply to Phase Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by

PM10 84% PM25 84%

For Soil Stablizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by

PM10 5% PM25 5%

For Soil Stablizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by

PM10 61% PM25 61%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by

PM10 44% PM25 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by

PM10 61% PM25 61%

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The following mitigation measures apply to Phase Mass Grading 1/16/2012 - 12/12/2014 - Default Mass Site Grading/Excavation Description

For Soil Stablizing Measures, the Apply soil stabilizers to inactive areas mitigation reduces emissions by

PM10 84% PM25 84%

For Soil Stablizing Measures, the Replace ground cover in disturbed areas quickly mitigation reduces emissions by

PM10 5% PM25 5%

For Soil Stablizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by

PM10 61% PM25 61%

For Unpaved Roads Measures, the Reduce speed on unpaved roads to less than 15 mph mitigation reduces emissions by

PM10 44% PM25 44%

For Unpaved Roads Measures, the Manage haul road dust 3x daily watering mitigation reduces emissions by

PM10 61% PM25 61%

Phase Assumptions

Phase Demolition 1/3/2012 - 1/13/2012 - Default Demolition Description

Building Volume Total (cubic feet) 0

Building Volume Daily (cubic feet) 0

On Road Truck Travel (VMT) 0

Off-Road Equipment

3 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day

2 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day

Phase Fine Grading 12/15/2014 - 3/18/2016 - Default Fine Site Grading/Excavation Description

Total Acres Disturbed 208 5

Maximum Daily Acreage Disturbed 52 12

Fugitive Dust Level of Detail Default

20 lbs per acre-day

On Road Truck Travel (VMT) 0

Off-Road Equipment

- 1 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Graders (174 hp) operating at a 0 61 load factor for 8 hours per day
- 1 Rubber Tired Dozers (357 hp) operating at a 0 59 load factor for 8 hours per day
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- 1 Water Trucks (189 hp) operating at a 0 5 load factor for 8 hours per day

Phase Trenching 3/21/2016 - 8/19/2016 - Default Trenching Description

Off-Road Equipment

- 2 Excavators (168 hp) operating at a 0 57 load factor for 8 hours per day
- 1 Other General Industrial Equipment (238 hp) operating at a 0 51 load factor for 8 hours per day
- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 0 hours per day

Phase Paving 8/22/2016 - 1/20/2017 - Default Paving Description

Acres to be Paved 52 12

Off-Road Equipment

- 1 Pavers (100 hp) operating at a 0 62 load factor for 8 hours per day
- 2 Paving Equipment (104 hp) operating at a 0 53 load factor for 8 hours per day
- 2 Rollers (95 hp) operating at a 0 56 load factor for 6 hours per day

Phase Building Construction 1/23/2017 - 5/17/2024 - Default Building Construction Description

Off-Road Equipment

- 1 Cranes (399 hp) operating at a 0 43 load factor for 7 hours per day
- 3 Forklifts (145 hp) operating at a 0 3 load factor for 8 hours per day
- 1 Generator Sets (49 hp) operating at a 0 74 load factor for 8 hours per day
- 3 Tractors/Loaders/Backhoes (108 hp) operating at a 0 55 load factor for 7 hours per day
- 1 Welders (45 hp) operating at a 0 45 load factor for 8 hours per day

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Phase Architectural Coating 5/20/2024 - 5/23/2025 - Default Architectural Coating Description
Rule Residential Interior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 100
Rule Residential Interior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 50
Rule Residential Exterior Coatings begins 1/1/2005 ends 6/30/2008 specifies a VOC of 250
Rule Residential Exterior Coatings begins 7/1/2008 ends 12/31/2040 specifies a VOC of 100
Rule Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
Rule Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250